INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/43592

A. CLASSIFICATION OF SUBJECT MATTER IPC: F21V 7/00(2006.01);G02B 5/04(2006.01) G02B 5/08(2006.01),7/182(2006.01)					
USPC: 362/296,297,341,346,347,348;359/833,834,850 According to International Patent Classification (IPC) or to both national classification and IPC					
	B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 362/296,297,341,346,347,348;359/833,834,850					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
. X	US 1,259,493 A (DOREY) 19 March 1918 (19.03.1	918), Figure 1, Column 1, Lines 50-55.	1-4, 8-9		
Y			5-7, 10-14		
Y	US 2004/0218392 A1 (LEADFORD) 04 November 2004 (04.11.2004), Figure 8, Pages 4-5, Paragraphs 60-61.		7		
A	US 3,329,812 A (HARLING) 04 July 1967 (04.04.1967), Figures 1 and 4.		1-14		
A	US 4,839,781 A (BARNES et al) 13 June 1989 (13.06.1989), Figures 1-9.		1-14		
A	US 4,903,180 A (TAYLOR et al) 20 February 1990 (20.02.1990), Figures 1-4.		1-14		
A	US Des. 388,526 S (BRAY) 20 December 1997 (20	.12.1997), Figures 1-6.	1-14		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
Special categories of cited documents:		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the			
	ment defining the general state of the art which is not considered to be principle or theory underlying the invention				
"E" earlier app	plication or patent published on or after the international filing date	"X" document of particular relevance; the c considered novel or cannot be consider when the document is taken alone			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the			
priority date claimed		"&" document member of the same patent for			
Date of the actual completion of the international search		Date of mailing of the international search report 23 JUN 2006			
25 April 2006 (25.04.2006) Name and mailing address of the ISA/US		Authorized officer Rhands for BOD			
Mail Stop PCT, Atm: ISA/US					
Commissioner for Patents P.O. Box 1450		Alan Cariaso			
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Facsimile No. (571) 273-3201					

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INTERNATIONAL SEARCH REPORT

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PCT/US05/43592

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US 2004/0141324 A (SALES) 22 July 2004 (22.04.2004), Figures 1-13.	1-14		

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